

# Navilock NL-82003P M8 Serial Multi GNSS UDR Receiver u-blox NEO-M8U 0.5 m

## Description

The M8 serial multi GNSS UDR receiver by Navilock based on u-blox NEO-M8U chipset has a built-in active antenna as well as high-sensitivity sensors such as a 3D accelerometer and a 3D gyroscope. In conjunction with a laptop, a reliable position determination is also possible when the GNSS signal is interrupted. The M8 universal connector is waterproof and enables the connection of optional connecting cables with many different connectors.



**Item no. 62759**

EAN: 4043619627592

Country of origin: Taiwan,  
Republic Of China

Package: Box

## Specification

- Connector:
  - 1 x M8 Navilock waterproof connecting plug  
(USB or serial cable are optional available)
- Chipset: u-blox NEO-M8U
- Frequency:
  - GPS: L1, 1575.4200 MHz
  - GLONASS: L1, 1602 (k x 0.5625) MHz
  - BEIDOU COMPASS: B1, 1561.0980 MHz
  - GALILEO: E1, 1575.4200 MHz
  - QZSS: L1, 1575.4200 MHz
- Accepts the signals of up to 72 satellites at the same time
- Supports AssistNow online / offline, SBAS (WAAS, EGNOS, QZSS and MSAS)
- Supports NMEA 0183 protocols: GGA, GSA, GSV, RMC, VTG
- Supports UDR from NMEA 4.1
- Auto Baud Rate up to 115200 bps
- PPS signal on pin 6 (LVTTTL 3.3 V)
- Update rate: up to 20 Hz
- Sensibility: max. -160 dBm

- Protection class: IPX6
- Operating temperature: -20 °C ~ 60 °C
- Power supply: 5 - 48 V DC
- Current consumption: max. 45 mA
- Cold start in ca. 26 seconds
- Hot start in ca. 1 second
- Positioning accuracy: 2.5 m CEP (Circular Error Probable) and 2 m CEP with SBAS
- Cable length: ca. 0.5 m
- Dimensions (LxWxH): ca. 65 x 45 x 22 mm

Microsoft Sensor and Location Platform (Website)

- Profit from Windows applications (e.g. weather, maps, etc)
- Supporting the GNSS location platform API (32 bit)

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## System requirements

- Linux Kernel 2.6 or above
- Mac OS
- Windows 8.1/10
- M8 connection cable

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## Package content

- M8 serial receiver
- Navilock support CD incl. driver and user manual

## General

Protection category:	IPX6
Suitable for outdoor:	yes

## Interface

connector:	1 x M8 male
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## Technical characteristics

Operating voltage:	5 - 48 V DC
Chipset:	u-blox NEO-M8U
Frequency range:	BEIDOU: B1, 1561.0980 MHz GALILEO: L1 1575.4200 MHz GLONASS: G1, 1.6025625 - 1.6155000 GHz GPS: L1, 1,5754200 GHz
Operating temperature:	-20 °C ~ 60 °C
Current consumption:	45 mA
Sensibility:	-160 dBm
Update rate:	up tp 20 Hz

## Physical characteristics

Housing colour:	black
Cable colour:	black
Cable length incl. connector:	0.5 m
Diameter:	62 mm
Length:	65 mm
Height:	21 mm